

Brief CV of Bror Morein (Last updated May 2008)

Current titles

Visiting Professor Department of Virology Uppsala University Uppsala University
from 2004. Chairman Scientific Advisory Board ISCONOVA AB from 2004

Date of birth 7th October 1934

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Qualifications

- Royal Veterinary College, Stockholm PhD 1973 Virology
- Swedish University of Agricultural Sciences Professor 1981 Virology
- Senior Research Director Isconova AB 2002

Appointments

- Veterinary practice and food hygiene, Swedish Government 1959-1963
- FAO of the UN, associate expert in Nigeria and Peru 1963-1966
- Veterinarian at the Department of Biological Products at the National Veterinary Institute, Stockholm 1966-1974
- Associate Professor of Virology at the Department of Virology, The Royal Veterinary College, Stockholm 1974
- Associate Professor of Virology at the Department of Biological Products at the National Veterinary Institute; Research and development Of vaccines, Stockholm 1974-1981
- Fellowship Deutsche Krebsforschung Zenter 1977
- EMBO-fellowship to work at the EMBL at Heidelberg, Germany 1977-1979
- Professor Virology Vet faculty and Head of the Diagnostic Department of the National Veterinary Institute, Uppsala from 1981
- Member of the Royal Academy of Agriculture and Forestry 1985
- Advisor, The Swedish Board for Technical Development 1987-1991
- Advisor, Swedish Environmental Protection Agency 1994-1998
- Referee for various journals
- About 15 and NIH and EU projects during the years.
- Scientific advisor for 20 PhD students during the years
- About 200 scientific publications
- 20 patents granted in USA and EU
- EU-project "EU centralized Chimpanzee Facility for Preclinical HIV-1 vaccine Development" 1996
- EU-project "Contagious Bovine Pleuropneumonia" 1993 to 1997 Swedish representative management group for COST 834 "Lentiviruses in sheep and goat" 1998
- Reviewer of EU project for BIOMED 2 and BIOTECH 4 1996, 1997
- EU-project Neovac-EU Improving Vaccination in Early Life QLRT-PL 1999-049 2000-2003
- NIH project HIVRAD 2002-2006
- EU project "Spiderman" 2004-2007 (biocompatibility surgery) The development of novel spider protein derived implants and devices for orthopaedic surgery. Contract number; G5RD-CT-2002-00738
- EU project "Silk bone" 2005-2007 (biocompatibility surgery) Development and evaluation of mineralised silk based composites for orthopaedic applications" contract number COOP-CT-2005-18060



Patents

- Round 20 patent and patent applications in the fields of vaccinology, monoclonal antibody and drug delivery
- Recent Patents from 2004 (WO 2004/004762, PCT/SE2004/001038 and 2006 refer to a new 2-component concept for adjuvants.
- Patent application 2007 PCT/se2007/050878 refers to new use of lipid containing particles for cancer treatment
- Patent application 2008 patentansökan (15 juli 2008), nr. 61/080729 i USA Th Liquid filter system

Publications (more than 200) Below some selected and recent articles

- Morein, B., Helenius, A., Simons, K., Pettersson, R., Kääriäinen, L., Shirrmacher, V. (1978). Effective subunit vaccines against an enveloped animal virus. *Nature* 276:715-718.
- Helenius, A., Morein, B., Fries, E., Simons, K., Robinson, P., Shirrmacher, V., Terhorst, C. and Strominger, L. (1978). Human (HLA-A) and HLA-B) and murine (H-2K and H-2D) histocompatibility antigens are cell surface receptors for Semliki Forste virus. *Proc. Natl. Acad. Sci. USA* 75:3846.
- Morein, B., Barz, D., Koszinowski, U. and Schirrmacher, V. (1979). Integration of a virus membrane protein into the lipid bilayer of target cells as a prerequisite for immune cytolysis. Specific cytolysis after virosome-target cell fusion. *J. exp. med.* 150:1383-1398.
- Morein, B., Sundquist, B., Höglund, S., Dalsgaard, K. & Osterhaus, A. Iscom, a novel structure of antigenic presentation of membrane proteins from enveloped viruses. *Nature* 308:457-460, 1984.
- Takahashi, H., Takeshita, T., Morein, B., Putney, S., Germain, R.N. and Berzofsky, J. Induction of CD8+ cytotoxic T cells by immunization with purified HIV-1 envelope protein in iscoms. *Nature* 344:873-875, 1990.
- Heeney, J.L., Teeuwssen, V.J.P., van Gils, M., Bogers, W.J.J. M., de Giuli Morghen, C., Radaelli, A., Barnett, S., Morein, B., Åkerblom, L., Wang, Y., Lehner and Davis, D. β -chemokines and neutralizing antibody titers correlate with sterilizing immunity generated in HIV-1 vaccinated macaques. *Proc. Natl. Acad. Sci. USA* 95:10803-10808, 1998.
- Hu, K.-F., Ekström, J., Merza, M., Lövgren-Bengtsson, K. and Morein, B. (1999). Induction of antibody responses in the common mucosal immune system by RSV ISCOMs. *Immunol.* 187:191-198, 1999.
- Morein, B., Hu, K. and Izzeldin, A. Current status and potential of ISCOMs in Veterinary Medicine in *Advanced Drug Delivery Reviews*, Elsevier, 56:1367-1382, 2004
- Morein, B., Blomquist, G. and Hu, K. Immune response in neonatal period. *J. comp. Path. Vol. Page* (2007)
- Morein, B., Lövgren-Bengtsson, K., D'Hondt, E. and Hu, K-F. New ISCOMS meet unsettled vaccine demands in *Vaccine Adjuvants and delivery Systems*, Ed. Manmohan Sing, John Wiley & Sons, Inc. (2007)